

CLAIMS

I claim:

1. A lighting apparatus comprising

a base, the base comprising a communications port;

the lighting apparatus further comprising

a yoke; and

a lamp housing, the lamp housing comprising a light valve and a camera;

wherein the light valve is used to project a projected image onto a projection surface;

wherein the base, and the yoke are coupled so that the yoke can rotate with respect to the base;

wherein the lamp housing and the yoke are coupled so that the lamp housing can rotate with respect to the yoke;

wherein the camera captures at least a portion of the projected image on the projection surface as a captured image;

wherein the captured image is rotated to a desired orientation by a command received at the communications port; and

wherein the rotated captured image is projected onto the projection surface to create video feedback art comprised of a series of projected images.

2. The lighting apparatus of claim 1 wherein

the captured image is rotated electronically

3. The lighting apparatus of claim 1 further comprising

a memory; and

wherein content from the memory is mixed into the video feedback art.

4. The lighting apparatus of claim 1 further comprising

mixing content as provided over the communications system into the video feedback art.

5. A lighting apparatus comprising

a base, the base comprising a communications port

the lighting apparatus further comprising

a yoke; and

a lamp housing, the lamp housing comprising a light valve and a camera;

wherein the light valve is used to project a first image onto a projection surface;

wherein the base, and the yoke are coupled so that the yoke can rotate with respect to the base;

wherein the lamp housing and the yoke are coupled so that the lamp housing can rotate with respect to the yoke;

wherein the camera captures at least a portion of the first image as projected onto the projection surface as a first captured image;

wherein the first captured image is rotated to a desired orientation by a command received at the communications port;

wherein the rotated first captured image is projected onto the projection surface as a second projected image;

wherein the first projected image has an orientation and the second projected image has an orientation, and the orientations of the first and the second projected images are different; and

wherein the first captured image is rotated by a command sent from a central controller over a communications system to a first image projection lighting device by an operator of the central controller in response to an artistic requirement to create video feedback art comprised of a series of projected images.

6. The lighting apparatus of claim 5 wherein

the first captured image is rotated electronically

7. The lighting apparatus of claim 5 wherein

the communications port transmits the first image and the second image over a communications system.

8. An image projection lighting device comprising

a base, the base comprising a communications port

the image projection lighting device further comprising

a yoke;

and a lamp housing, the lamp housing comprising a light valve and a camera;

wherein the light valve is used to project an image onto a projection surface;

wherein the base, and the yoke are coupled so that the yoke can rotate with respect to the base;

wherein the lamp housing and the yoke are coupled so that the lamp housing can rotate with respect to the yoke;

wherein the camera captures a first captured image of the projection surface;

wherein the camera has an optical axis;

wherein the camera is physically rotated on the optical axis to a desired orientation by a command received via the communications port; and

wherein the command is initiated by an operator.

9. A lighting system comprising

a plurality of image projection lighting devices including a first image projection lighting device;

a central controller;

a communications system;

wherein the first image projection lighting device is comprised of

a base, the base comprising a communications port

the first image projection lighting device further comprised of

a yoke; and

a lamp housing, the lamp housing comprising a light valve and a camera

wherein the light valve is used form a first projected image onto a projection surface;

wherein the base, and the yoke are coupled so that the yoke can rotate with respect to the base;

wherein the lamp housing and the yoke are coupled so that the lamp housing can rotate with respect to the yoke;

wherein the camera of the first image projection lighting device captures at least a portion of the first projected image to form a captured image;

wherein the captured image is rotated to an angle of orientation by a command sent from the central controller over the communications system to the first image projection lighting device;

wherein the captured image is formed by the light valve to produce a second projected image;

wherein the first projected image and the second projected image are projected on to the projection surface at different rotational angles of orientation;

wherein the first projected image and the second projected image are projected simultaneously creating a video feedback art;

and wherein the command is determined by an operator of the central controller.

10. The lighting system of claim 9 further wherein

the first image projection lighting device has a memory which includes content;

and wherein the first image projection lighting device mixes content from the memory into the video feedback art.

11. The lighting system of claim 9 further wherein

the first image projection lighting device mixes content as provided from the communications system into the video feedback art.